Notice of Exemption

To: Office of Planning and Research P.O. Box 3044, 1400 Tenth Street, Rm. 113 Sacramento, CA 95812-3044

From: California Department of Fish and Wildlife Habitat Conservation Planning Branch Native Plant Program P.O. Box 944209 Sacramento. CA 94244-2090

Project Title: Phylogenetics and Population Genetics of North American Wallflower (Project)

Project Location: Plant material collection for the Project will occur in MacKerricher State Park (39.4932N, 123.7936W) in Mendocino County, Asilomar State Beach (36.6180N, 121.9419W) and Marina State Beach (36.6963N, 121.8091W) in Monterey County, Samoa Dunes (40.7627N, 124.2216W) in Humboldt County and Antioch Dunes in Contra Costa County (38.0160N, 121.7960W). DNA sequencing and molecular lab work will be conducted at the QB3 Vincent J. Coates Genomics Sequencing Laboratory, University of California Berkeley in Alameda County. Voucher specimens will be housed in the Carl W. Sharsmith Herbarium, San Jose State University, Santa Clara County.

Project Description: The California Department of Fish and Wildlife is issuing a permit to Benjamin Carter [Permit No. 2081(a)-21-013-RP] pursuant to Fish and Game Code section 2081(a) for a project to quantify *Erysimum* genetic diversity within and among geographically disjunct populations of *E. menziesii* and *E. capitatum* var. *angustatum* to reconstruct phylogenetic understanding of the genus. Primary research goals are to: (1) determine if disjunct populations of *E. menziesii* and *E. capitatum* var. *angustatum* are genetically distinct; and (2) determine evolutionary relationships within *Erysimum*. A small amount of leaf tissue (approximately 2 cm²) will be collected from 15 individual plants at each of the five sampling locations providing for a total of 75 samples for population genetic analysis material. One voucher specimen will be collected from each of the five populations, totaling five voucher specimens. Project activities include DNA extraction of collected plant tissue, polymerase chain reaction (PCR) amplification and genome sequencing to provide population statistical data for phylogenetic research purposes.

California Public Agency Approving Project: California Department of Fish and Wildlife

Person or Agency Carrying Out Project: Benjamin Carter, Assistant Professor, Director of the Carl W. Sharsmith Herbarium, San Jose State University

Herbanum, San Jose State University	
Exempt Status:	
☐ Ministerial;	
☐ Declared Emergency;	
☐ Emergency Project;	
☐ Categorical Exemption. Type and section	n number: Section 15306, Class 6
permit issued by the California Department of Fish	d species, <i>E. menziesii</i> and <i>E. capitatum</i> var. <i>angustatum</i> . The and Wildlife for the Project includes measures to ensure that arm var. <i>angustatum</i> are not detrimentally impacted by research
Lead Agency Contact Person: Joanne Heraty	Area Code/Telephone/ Extension: (916) 594-4574
DocuSigned by: Signature:	Date: 2/14/2022
Isabel Baer, Native Plant Program	n Manager
☐ Signed by Lead Agency □	Pate Received for filing at OPR: